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      Liu, David
      Goel, Vikas
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<151> 2001-03-02

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<170> PatentIn version 3.0

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Mr. J. H. Smith	123 Main St.	10/15/1918	10:30	Visited
Mr. W. B. Jones	456 Oak St.	10/16/1918	11:00	Visited
Mr. C. D. Brown	789 Elm St.	10/17/1918	10:45	Visited
Mr. E. F. Green	101 Pine St.	10/18/1918	10:15	Visited
Mr. G. H. White	234 Cedar St.	10/19/1918	10:30	Visited
Mr. I. J. Black	567 Birch St.	10/20/1918	10:45	Visited
Mr. K. L. Gray	890 Spruce St.	10/21/1918	10:30	Visited
Mr. M. N. Hall	1122 Ash St.	10/22/1918	10:15	Visited
Mr. O. P. King	1456 Willow St.	10/23/1918	10:45	Visited
Mr. Q. R. Lewis	1789 Poplar St.	10/24/1918	10:30	Visited
Mr. S. T. Clark	2012 Hickory St.	10/25/1918	10:15	Visited
Mr. U. V. Scott	2345 Walnut St.	10/26/1918	10:45	Visited
Mr. W. X. Adams	2678 Chestnut St.	10/27/1918	10:30	Visited
Mr. Y. Z. Baker	2901 Sycamore St.	10/28/1918	10:15	Visited
Mr. A. B. Carter	3234 Magnolia St.	10/29/1918	10:45	Visited
Mr. C. D. Evans	3567 Dogwood St.	10/30/1918	10:30	Visited
Mr. E. F. Gibson	3890 Redwood St.	10/31/1918	10:15	Visited
Mr. G. H. Hill	4123 Cypress St.	11/1/1918	10:45	Visited
Mr. I. J. Long	4456 Juniper St.	11/2/1918	10:30	Visited
Mr. K. L. Martin	4789 Fir St.	11/3/1918	10:15	Visited
Mr. M. N. Peterson	5012 Hemlock St.	11/4/1918	10:45	Visited
Mr. O. P. Quinn	5345 Larch St.	11/5/1918	10:30	Visited
Mr. Q. R. Roberts	5678 Locust St.	11/6/1918	10:15	Visited
Mr. S. T. Turner	5901 Mulberry St.	11/7/1918	10:45	Visited
Mr. U. V. Walker	6234 Peach St.	11/8/1918	10:30	Visited
Mr. W. X. Young	6567 Plum St.	11/9/1918	10:15	Visited
Mr. Y. Z. Allen	6890 Apple St.	11/10/1918	10:45	Visited
Mr. A. B. Wright	7123 Orange St.	11/11/1918	10:30	Visited
Mr. C. D. King	7456 Lemon St.	11/12/1918	10:15	Visited
Mr. E. F. Scott	7789 Lime St.	11/13/1918	10:45	Visited
Mr. G. H. Adams	8012 Grape St.	11/14/1918	10:30	Visited
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Mr. K. L. Carter	8678 Raspberry St.	11/16/1918	10:45	Visited
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Mr. S. T. Long	9890 Currant St.	11/20/1918	10:30	Visited
Mr. U. V. Martin	10123 Gooseberry St.	11/21/1918	10:15	Visited
Mr. W. X. Peterson	10456 Huckleberry St.	11/22/1918	10:45	Visited
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Lys	Leu	Lys	Val	Phe	Met	Pro	Lys	Val	Glu	Ser	Leu	Ile	Asn	Glu	Glu	
		675					680					685				

Lys	Lys	Asn	Ile	Lys	Thr	Glu	Gly	Gln	Ser	Asp	Asn	Ser	Glu	Pro	Ser		
690						695					700						
Thr	Glu	Gly	Glu	Ile	Thr	Gly	Gln	Ala	Thr	Thr	Lys	Pro	Gly	Gln	Gln		
705					710					715					720		
Ala	Gly	Ser	Ala	Leu	Glu	Gly	Asp	Ser	Val	Gln	Ala	Gln	Ala	Gln	Glu		
				725					730						735		
Gln	Lys	Gln	Ala	Gln	Pro	Pro	Val	Pro	Val	Pro	Val	Pro	Glu	Ala	Lys		
			740					745					750				
Ala	Gln	Val	Pro	Thr	Pro	Pro	Ala	Pro	Val	Asn	Asn	Lys	Thr	Glu	Asn		
		755					760					765					
Val	Ser	Lys	Leu	Asp	Tyr	Leu	Glu	Lys	Leu	Tyr	Glu	Phe	Leu	Asn	Thr		
770						775					780						
Ser	Tyr	Ile	Cys	His	Lys	Tyr	Ile	Leu	Val	Ser	His	Ser	Thr	Met	Asn		
785					790					795					800		
Glu	Lys	Ile	Leu	Lys	Gln	Tyr	Lys	Ile	Thr	Lys	Glu	Glu	Glu	Ser	Lys		
			805						810					815			
Leu	Ser	Ser	Cys	Asp	Pro	Leu	Asp	Leu	Leu	Phe	Asn	Ile	Gln	Asn	Asn		
			820					825					830				
Ile	Pro	Val	Met	Tyr	Ser	Met	Phe	Asp	Ser	Leu	Asn	Asn	Ser	Leu	Ser		
		835					840						845				
Gln	Leu	Phe	Met	Glu	Ile	Tyr	Glu	Lys	Glu	Met	Val	Cys	Asn	Leu	Tyr		
	850					855					860						
Lys	Leu	Lys	Asp	Asn	Asp	Lys	Ile	Lys	Asn	Leu	Leu	Glu	Glu	Ala	Lys		
865					870					875					880		
Lys	Val	Ser	Thr	Ser	Val	Lys	Thr	Leu	Ser	Ser	Ser	Ser	Met	Gln	Pro		
				885					890					895			
Leu	Ser	Leu	Thr	Pro	Gln	Asp	Lys	Pro	Glu	Val	Ser	Ala	Asn	Asp	Asp		
			900					905					910				
Thr	Ser	His	Ser	Thr	Asn	Leu	Asn	Asn	Ser	Leu	Lys	Leu	Phe	Glu	Asn		
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	930					935					940						
Gln	Lys	Ser	Ser	Glu	Asn	Phe	Tyr	Glu	Lys	Ile	Leu	Lys	Asp	Ser	Asp		
945					950					955					960		
Thr	Phe	Tyr	Asn	Glu	Ser	Phe	Thr	Asn	Phe	Val	Lys	Ser	Lys	Ala	Asp		
			965						970					975			
Asp	Ile	Asn	Ser	Leu	Asn	Asp	Glu	Ser	Lys	Arg	Lys	Lys	Leu	Glu	Glu		
			980					985					990				
Asp	Ile	Asn	Lys	Leu	Lys	Lys	Thr	Leu	Gln	Leu	Ser	Phe	Asp	Leu	Tyr		
		995					1000					1005					

Asn	Lys	Tyr	Lys	Leu	Lys	Leu	Glu	Arg	Leu	Phe	Asp	Lys	Lys	Lys
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Thr	Val	Gly	Lys	Tyr	Lys	Met	Gln	Ile	Lys	Lys	Leu	Thr	Leu	Leu
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Lys	Glu	Gln	Leu	Glu	Ser	Lys	Leu	Asn	Ser	Leu	Asn	Asn	Pro	Lys
1040						1045					1050			
His	Val	Leu	Gln	Asn	Phe	Ser	Val	Phe	Phe	Asn	Lys	Lys	Lys	Glu
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Ala	Glu	Ile	Ala	Glu	Thr	Glu	Asn	Thr	Leu	Glu	Asn	Thr	Lys	Ile
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Leu	Leu	Lys	His	Tyr	Lys	Gly	Leu	Val	Lys	Tyr	Tyr	Asn	Gly	Glu
1085						1090					1095			
Ser	Ser	Pro	Leu	Lys	Thr	Leu	Ser	Glu	Glu	Ser	Ile	Gln	Thr	Glu
1100						1105					1110			
Asp	Asn	Tyr	Ala	Ser	Leu	Glu	Asn	Phe	Lys	Val	Leu	Ser	Lys	Leu
1115						1120					1125			
Glu	Gly	Lys	Leu	Lys	Asp	Asn	Leu	Asn	Leu	Glu	Lys	Lys	Lys	Leu
1130						1135					1140			
Ser	Tyr	Leu	Ser	Ser	Gly	Leu	His	His	Leu	Ile	Ala	Glu	Leu	Lys
1145						1150					1155			
Glu	Val	Ile	Lys	Asn	Lys	Asn	Tyr	Thr	Gly	Asn	Ser	Pro	Ser	Glu
1160						1165					1170			
Asn	Asn	Thr	Asp	Val	Asn	Asn	Ala	Leu	Glu	Ser	Tyr	Lys	Lys	Phe
1175						1180					1185			
Leu	Pro	Glu	Gly	Thr	Asp	Val	Ala	Thr	Val	Val	Ser	Glu	Ser	Gly
1190						1195					1200			
Ser	Asp	Thr	Leu	Glu	Gln	Ser	Gln	Pro	Lys	Lys	Pro	Ala	Ser	Thr
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His	Val	Gly	Ala	Glu	Ser	Asn	Thr	Ile	Thr	Thr	Ser	Gln	Asn	Val
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Asp	Asp	Glu	Val	Asp	Asp	Val	Ile	Ile	Val	Pro	Ile	Phe	Gly	Glu
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Ser	Glu	Glu	Asp	Tyr	Asp	Asp	Leu	Gly	Gln	Val	Val	Thr	Gly	Glu
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Ala	Val	Thr	Pro	Ser	Val	Ile	Asp	Asn	Ile	Leu	Ser	Lys	Ile	Glu
1265						1270					1275			
Asn	Glu	Tyr	Glu	Val	Leu	Tyr	Leu	Lys	Pro	Leu	Ala	Gly	Val	Tyr
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Arg	Ser	Leu	Lys	Lys	Gln	Leu	Glu	Asn	Asn	Val	Met	Thr	Phe	Asn
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Asn Phe	Lys Asn Val Leu	Glu	Ser Asp Leu Ile	Pro	Tyr Lys Asp
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Leu Thr	Ser Ser Asn Tyr	Val	Val Lys Asp Pro	Tyr	Lys Phe Leu
1340		1345		1350	
Asn Lys	Glu Lys Arg Asp	Lys	Phe Leu Ser Ser	Tyr	Asn Tyr Ile
1355		1360		1365	
Lys Asp	Ser Ile Asp Thr	Asp	Ile Asn Phe Ala	Asn	Asp Val Leu
1370		1375		1380	
Gly Tyr	Tyr Lys Ile Leu	Ser	Glu Lys Tyr Lys	Ser	Asp Leu Asp
1385		1390		1395	
Ser Ile	Lys Lys Tyr Ile	Asn	Asp Lys Gln Gly	Glu	Asn Glu Lys
1400		1405		1410	
Tyr Leu	Pro Phe Leu Asn	Asn	Ile Glu Thr Leu	Tyr	Lys Thr Val
1415		1420		1425	
Asn Asp	Lys Ile Asp Leu	Phe	Val Ile His Leu	Glu	Ala Lys Val
1430		1435		1440	
Leu Asn	Tyr Thr Tyr Glu	Lys	Ser Asn Val Glu	Val	Lys Ile Lys
1445		1450		1455	
Glu Leu	Asn Tyr Leu Lys	Thr	Ile Gln Asp Lys	Leu	Ala Asp Phe
1460		1465		1470	
Lys Lys	Asn Asn Asn Phe	Val	Gly Ile Ala Asp	Leu	Ser Thr Asp
1475		1480		1485	
Tyr Asn	His Asn Asn Leu	Leu	Thr Lys Phe Leu	Ser	Thr Gly Met
1490		1495		1500	
Val Phe	Glu Asn Leu Ala	Lys	Thr Val Leu Ser	Asn	Leu Leu Asp
1505		1510		1515	
Gly Asn	Leu Gln Gly Met	Leu	Asn Ile Ser Gln	His	Gln Cys Val
1520		1525		1530	
Lys Lys	Gln Cys Pro Gln	Asn	Ser Gly Cys Phe	Arg	His Leu Asp
1535		1540		1545	
Glu Arg	Glu Glu Cys Lys	Cys	Leu Leu Asn Tyr	Lys	Gln Glu Gly
1550		1555		1560	
Asp Lys	Cys Val Glu Asn	Pro	Asn Pro Thr Cys	Asn	Glu Asn Asn
1565		1570		1575	
Gly Gly	Cys Asp Ala Asp	Ala	Lys Cys Thr Glu	Glu	Asp Ser Gly
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Ser Asn	Gly Lys Lys Ile	Thr	Cys Glu Cys Thr	Lys	Pro Asp Ser
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Tyr Pro Leu Phe Asp Gly Ile Phe Cys Ser Ser Ser Asn Phe Leu
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35 40 45

Asn Val Lys Asp Ile Leu Asn Ser Arg Phe Asn Lys Arg Glu Asn Phe
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Lys Asn Val Leu Glu Ser Asp Leu Ile Pro Tyr Lys Asp Leu Thr Ser
65 70 75 80

Ser Asn Tyr Val Val Lys Asp Pro Tyr Lys Phe Leu Asn Lys Glu Lys
85 90 95

Arg Asp Lys Phe Leu Ser Ser Tyr Asn Tyr Ile Lys Asp Ser Ile Asp
100 105 110

Thr Asp Ile Asn Phe Ala Asn Asp Val Leu Gly Tyr Tyr Lys Ile Leu
115 120 125

Ser Glu Lys Tyr Lys Ser Asp Leu Asp Ser Ile Lys Lys Tyr Ile Asn
130 135 140

Asp Lys Gln Gly Glu Asn Glu Lys Tyr Leu Pro Phe Leu Asn Asn Ile
145 150 155 160

Glu Thr Leu Tyr Lys Thr Val Asn Asp Lys Ile Asp Leu Phe Val Ile
165 170 175

His Leu Glu Ala Lys Val Leu Asn Tyr Thr Tyr Glu Lys Ser Asn Val
180 185 190

Glu Val Lys Ile Lys Glu Leu Asn Tyr Leu Lys Thr Ile Gln Asp Lys
195 200 205

Leu Ala Asp Phe Lys Lys Asn Asn Asn Phe Val Gly Ile Ala Asp Leu
210 215 220

Ser Thr Asp Tyr Asn His Asn Asn Leu Leu Thr Lys Phe Leu Ser Thr
225 230 235 240

Gly	Met	Val	Phe	Glu	Asn	Leu	Ala	Lys	Thr	Val	Leu	Ser	Asn	Leu	Leu
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Asp	Gly	Asn	Leu	Gln	Gly	Met	Leu	Asn	Ile	Ser	Gln	His	Gln	Cys	Val
			260					265					270		
Lys	Lys	Gln	Cys	Pro	Gln	Asn	Ser	Gly	Cys	Phe	Arg	His	Leu	Asp	Glu
		275					280					285			
Arg	Glu	Glu	Cys	Lys	Cys	Leu	Leu	Asn	Tyr	Lys	Gln	Glu	Gly	Asp	Lys
	290					295					300				
Cys	Val	Glu	Asn	Pro	Asn	Pro	Thr	Cys	Asn	Glu	Asn	Asn	Gly	Gly	Cys
305					310					315					320
Asp	Ala	Asp	Ala	Lys	Cys	Thr	Glu	Glu	Asp	Ser	Gly	Ser	Asn	Gly	Lys
				325					330					335	
Lys	Ile	Thr	Cys	Glu	Cys	Thr	Lys	Pro	Asp	Ser	Tyr	Pro	Leu	Phe	Asp
			340					345					350		
Gly	Ile	Phe	Cys	Ser	Ser	Ser	Asn	Phe	Leu	Gly	Ile	Ser	Phe	Leu	Leu
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			20					25					30		
Lys	Asn	Lys	Asn	Ile	Tyr	Gln	Glu	Leu	Ile	Gly	Gln	Lys	Ser	Ser	Glu
		35				40						45			
Asn	Phe	Tyr	Glu	Lys	Ile	Leu	Lys	Asp	Ser	Asp	Thr	Phe	Tyr	Asn	Glu
	50					55					60				
Ser	Phe	Thr	Asn	Phe	Val	Lys	Ser	Lys	Ala	Asp	Asp	Ile	Asn	Ser	Leu
65					70					75					80
Asn	Asp	Glu	Ser	Lys	Arg	Lys	Lys	Leu	Glu	Glu	Asp	Ile	Asn	Lys	Leu
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Lys	Lys	Thr	Leu	Gln	Leu	Ser	Phe	Asp	Leu	Tyr	Asn	Lys	Tyr	Lys	Leu
			100					105					110		
Lys	Leu	Glu	Arg	Leu	Phe	Asp	Lys	Lys	Lys	Thr	Val	Gly	Lys	Tyr	Lys
		115					120					125			
Met	Gln	Ile	Lys	Lys	Leu	Thr	Leu	Leu	Lys	Glu	Gln	Leu	Glu	Ser	Lys

130					135					140					
Leu	Asn	Ser	Leu	Asn	Asn	Pro	Lys	His	Val	Leu	Gln	Asn	Phe	Ser	Val
145					150					155					160
Phe	Phe	Asn	Lys	Lys	Lys	Glu	Ala	Glu	Ile	Ala	Glu	Thr	Glu	Asn	Thr
				165					170					175	
Leu	Glu	Asn	Thr	Lys	Ile	Leu	Leu	Lys	His	Tyr	Lys	Gly	Leu	Val	Lys
			180					185					190		
Tyr	Tyr	Asn	Gly	Glu	Ser	Ser	Pro	Leu	Lys	Thr	Leu	Ser	Glu	Glu	Ser
		195					200					205			
Ile	Gln	Thr	Glu	Asp	Asn	Tyr	Ala	Ser	Leu	Glu	Asn	Phe	Lys	Val	Leu
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Ser	Lys	Leu	Glu	Gly	Lys	Leu	Lys	Asp	Asn	Leu	Asn	Leu	Glu	Lys	Lys
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Lys	Leu	Ser	Tyr	Leu	Ser	Ser	Gly	Leu	His	His	Leu	Ile	Ala	Glu	Leu
				245					250					255	
Lys	Glu	Val	Ile	Lys	Asn	Lys	Asn	Tyr	Thr	Gly	Asn	Ser	Pro	Ser	Glu
			260					265					270		
Asn	Asn	Thr	Asp	Val	Asn	Asn	Ala	Leu	Glu	Ser	Tyr	Lys	Lys	Phe	Leu
		275					280					285			
Pro	Glu	Gly	Thr	Asp	Val	Ala	Thr	Val	Val	Ser	Glu	Ser	Gly	Ser	Asp
	290					295					300				
Thr	Leu	Glu	Gln	Ser	Gln	Pro	Lys	Lys	Pro	Ala	Ser	Thr	His	Val	Gly
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Ala	Glu	Ser	Asn	Thr	Ile	Thr	Thr	Ser	Gln	Asn	Val	Asp	Asp	Glu	Val
				325					330					335	
Asp	Asp	Val	Ile	Ile	Val	Pro	Ile	Phe	Gly	Glu	Ser	Glu	Glu	Asp	Tyr
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 <213> Plasmodium falciparum

<400> 13

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Asn	Leu	Asn	Asn	Ser	Leu	Lys	Leu	Phe	Glu	Asn	Ile	Leu	Ser	Leu	Gly
			20					25					30		
Lys	Asn	Lys	Asn	Ile	Tyr	Gln	Glu	Leu	Ile	Gly	Gln	Lys	Ser	Ser	Glu
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NAME	AGE	RELATION	RESIDENCE	DATE
Mr. J. H. Smith	45	Owner	123 Main St.	1910
Mr. W. B. Jones	38	Owner	456 Elm St.	1911
Mr. C. D. Brown	52	Owner	789 Oak St.	1912
Mr. E. F. Green	41	Owner	101 Pine St.	1913
Mr. G. H. White	35	Owner	234 Cedar St.	1914
Mr. I. J. Black	48	Owner	567 Birch St.	1915
Mr. K. L. Gray	33	Owner	890 Spruce St.	1916
Mr. M. N. Hall	55	Owner	1122 Ash St.	1917
Mr. O. P. King	42	Owner	1444 Willow St.	1918
Mr. Q. R. Lee	37	Owner	1776 Poplar St.	1919
Mr. S. T. Scott	50	Owner	2098 Hickory St.	1920
Mr. U. V. Walker	44	Owner	2420 Sycamore St.	1921
Mr. W. X. Young	39	Owner	2752 Chestnut St.	1922
Mr. Y. Z. Adams	53	Owner	3084 Walnut St.	1923
Mr. A. B. Baker	46	Owner	3416 Maple St.	1924
Mr. C. D. Carter	34	Owner	3748 Elm St.	1925
Mr. E. F. Evans	51	Owner	4080 Oak St.	1926
Mr. G. H. Fisher	43	Owner	4412 Pine St.	1927
Mr. I. J. Gibson	36	Owner	4744 Cedar St.	1928
Mr. K. L. Hall	54	Owner	5076 Birch St.	1929
Mr. M. N. Hill	47	Owner	5408 Spruce St.	1930
Mr. O. P. King	32	Owner	5740 Ash St.	1931
Mr. Q. R. Lee	56	Owner	6072 Willow St.	1932
Mr. S. T. Scott	49	Owner	6404 Poplar St.	1933
Mr. U. V. Walker	38	Owner	6736 Sycamore St.	1934
Mr. W. X. Young	52	Owner	7068 Chestnut St.	1935
Mr. Y. Z. Adams	45	Owner	7400 Walnut St.	1936
Mr. A. B. Baker	31	Owner	7732 Maple St.	1937
Mr. C. D. Carter	58	Owner	8064 Elm St.	1938
Mr. E. F. Evans	41	Owner	8396 Oak St.	1939
Mr. G. H. Fisher	35	Owner	8728 Pine St.	1940
Mr. I. J. Gibson	53	Owner	9060 Cedar St.	1941
Mr. K. L. Hall	46	Owner	9392 Birch St.	1942
Mr. M. N. Hill	33	Owner	9724 Spruce St.	1943
Mr. O. P. King	57	Owner	10056 Ash St.	1944
Mr. Q. R. Lee	40	Owner	10388 Willow St.	1945
Mr. S. T. Scott	34	Owner	10720 Poplar St.	1946
Mr. U. V. Walker	59	Owner	11052 Sycamore St.	1947
Mr. W. X. Young	42	Owner	11384 Chestnut St.	1948
Mr. Y. Z. Adams	36	Owner	11716 Walnut St.	1949
Mr. A. B. Baker	54	Owner	12048 Maple St.	1950
Mr. C. D. Carter	47	Owner	12380 Elm St.	1951
Mr. E. F. Evans	32	Owner	12712 Oak St.	1952
Mr. G. H. Fisher	56	Owner	13044 Pine St.	1953
Mr. I. J. Gibson	49	Owner	13376 Cedar St.	1954
Mr. K. L. Hall	37	Owner	13708 Birch St.	1955
Mr. M. N. Hill	51	Owner	14040 Spruce St.	1956
Mr. O. P. King	44	Owner	14372 Ash St.	1957
Mr. Q. R. Lee	31	Owner	14704 Willow St.	1958
Mr. S. T. Scott	58	Owner	15036 Poplar St.	1959
Mr. U. V. Walker	41	Owner	15368 Sycamore St.	1960
Mr. W. X. Young	35	Owner	15700 Chestnut St.	1961
Mr. Y. Z. Adams	53	Owner	16032 Walnut St.	1962
Mr. A. B. Baker	46	Owner	16364 Maple St.	1963
Mr. C. D. Carter	33	Owner	16696 Elm St.	1964
Mr. E. F. Evans	57	Owner	17028 Oak St.	1965
Mr. G. H. Fisher	40	Owner	17360 Pine St.	1966
Mr. I. J. Gibson	34	Owner	17692 Cedar St.	1967
Mr. K. L. Hall	52	Owner	18024 Birch St.	1968
Mr. M. N. Hill	45	Owner	18356 Spruce St.	1969
Mr. O. P. King	32	Owner	18688 Ash St.	1970
Mr. Q. R. Lee	56	Owner	19020 Willow St.	1971
Mr. S. T. Scott	49	Owner	19352 Poplar St.	1972
Mr. U. V. Walker	38	Owner	19684 Sycamore St.	1973
Mr. W. X. Young	52	Owner	20016 Chestnut St.	1974
Mr. Y. Z. Adams	45	Owner	20348 Walnut St.	1975
Mr. A. B. Baker	31	Owner	20680 Maple St.	1976
Mr. C. D. Carter	58	Owner	21012 Elm St.	1977
Mr. E. F. Evans	41	Owner	21344 Oak St.	1978
Mr. G. H. Fisher	35	Owner	21676 Pine St.	19

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Lys Asn Lys Asn Ile Tyr Gln Glu Leu Ile Gly Gln Lys Ser Ser Glu
35 40 45

Asn Phe Tyr Glu Lys Ile Leu Lys Asp Ser Asp Thr Phe Tyr Asn Glu
50 55 60

Ser Phe Thr Asn Phe Val Lys Ser Lys Ala Asp Asp Ile Asn Ser Leu
65 70 75 80

Asn Asp Glu Ser Lys Arg Lys Lys Leu Glu Glu Asp Ile Asn Lys Leu
85 90 95

Lys Lys Thr Leu Gln Leu Ser Phe Asp Leu Tyr Asn Lys Tyr Lys Leu
100 105 110

Lys Leu Glu Arg Leu Phe Asp Lys Lys Lys Thr Val Gly Lys Tyr Lys
115 120 125

Met Gln Ile Lys Lys Leu Thr Leu Leu Lys Glu Gln Leu Glu Ser Lys
130 135 140

Leu Asn Ser Leu Asn Asn Pro Lys His Val Leu Gln Asn Phe Ser Val
145 150 155 160

Phe Phe Asn Lys Lys Lys Glu Ala Glu Ile Ala Glu Thr Glu Asn Thr
165 170 175

Leu Glu Asn Thr Lys Ile Leu Leu Lys His Tyr Lys Gly Leu Val Lys
180 185 190

Tyr Tyr Asn Gly Glu Ser Ser Pro Leu Lys Thr Leu Ser Glu Glu Ser
195 200 205

Ile Gln Thr Glu Asp Asn Tyr Ala Ser Leu Glu Asn Phe Lys Val Leu
210 215 220

Ser Lys Leu Glu Gly Lys Leu Lys Asp Asn Leu Asn Leu Glu Lys Lys
225 230 235 240

Lys Leu Ser Tyr Leu Ser Ser Gly Leu His His Leu Ile Ala Glu Leu
245 250 255

Lys Glu Val Ile Lys Asn Lys Asn Tyr Thr Gly Asn Ser Pro Ser Glu
260 265 270

Asn Asn Thr Asp Val Asn Asn Ala Leu Glu Ser Tyr Lys Lys Phe Leu
275 280 285

Pro Glu Gly Thr Asp Val Ala Thr Val Val Ser Glu Ser Gly Ser Asp
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Thr Leu Glu Gln Ser Gln Pro Lys Lys Pro Ala Ser Thr His Val Gly
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<211> 376

<212> PRT

<213> Plasmodium falciparum

<400> 34

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35 40 45

Lys Asp Ile Leu Asn Ser Arg Phe Asn Lys Arg Glu Asn Phe Lys Asn
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Val Leu Glu Ser Asp Leu Ile Pro Tyr Lys Asp Leu Thr Ser Ser Asn
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Tyr Val Val Lys Asp Pro Tyr Lys Phe Leu Asn Lys Glu Lys Arg Asp
85 90 95

Lys Phe Leu Ser Ser Tyr Asn Tyr Ile Lys Asp Ser Ile Asp Thr Asp
100 105 110

Ile Asn Phe Ala Asn Asp Val Leu Gly Tyr Tyr Lys Ile Leu Ser Glu
115 120 125

Lys Tyr Lys Ser Asp Leu Asp Ser Ile Lys Lys Tyr Ile Asn Asp Lys
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Gln Gly Glu Asn Glu Lys Tyr Leu Pro Phe Leu Asn Asn Ile Glu Thr
145 150 155 160

Leu Tyr Lys Thr Val Asn Asp Lys Ile Asp Leu Phe Val Ile His Leu
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<213> Plasmodium falciparum

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Cys	Asn 50	Glu	Asn	Asn	Gly	Gly 55	Cys	Asp	Ala	Asp	Ala 60	Lys	Cys	Thr	Glu
Glu 65	Asp	Ser	Gly	Ser	Asn 70	Gly	Lys	Lys	Ile	Thr 75	Cys	Glu	Cys	Thr	Lys 80
Pro	Asp	Ser	Tyr	Pro 85	Leu	Phe	Asp	Gly 90	Ile	Phe	Cys	Ser	Ser 95	Ser	Asn

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Lys	Asp	Pro	Thr	Leu	Asp	Glu	Ile	Lys	Asn	Tyr	Ile	Thr	Ser	Phe	Leu
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Thr Thr Thr Ser Thr Gly Thr Lys Leu Gln Asn Val Pro Ser Asn Asp 195 200 205		
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Pro Val Asp Asp His Ala Gly Lys His Met Lys Asp Glu Pro Val Asp 385 390 395 400		
Ile Asp Arg Thr Asn Ile Lys Lys Gly Leu Asn Glu Gln His Val Asn 405 410 415		
Pro Trp Thr Thr Thr Leu Ala Asp Leu Lys Asn Ile Asn Asn Ser Met 420 425 430		
Lys Ile Glu Lys Asn Asn Lys Ser Asn Glu Gln Val Lys Asn Thr Ser 435 440 445		
Val Ser Lys Ser Cys Asp Ile Ile Lys Pro Ser Lys Phe Asn Lys Lys		

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Ile	Met	Asp 515	Arg	Lys	Asn	Phe	Asp 520	Glu	Arg	Asn	Gln	Gln 525	Val	Asn	Asp
Arg	Arg 530	Asn	Phe	Asp	Glu	Arg 535	Asn	Gln	Gln	Val	Asn 540	Asp	Arg	Arg	Asn
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Glu Val Val Lys Arg Glu Arg Thr Asp Asn Leu Asp Phe His Gln		
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Arg	His	Glu	Ser	Arg	Asn	Leu	Ala	Ile	Gln	Phe	Ser	Gln	Tyr	Glu	Asp		
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Tyr	Met	His	Arg	Ile	Ile	Glu	Asp	Arg	Leu	Tyr	Ala	Asn	Ile	Gln	Asn		
290						295					300						
Asn	Leu	Pro	Ser	Val	His	Asn	Met	Lys	Asn	Met	Ser	Asn	Met	Asn	Asn		
305					310					315					320		
Ile	Asn	Asn	Asn	Asn	Lys	Asp	Ile	Ile	Ile	Asn	Arg	Ser	Gly	Ile	Ser		
				325					330					335			
Asn	Gly	Asn	Ser	Gln	Ser	Val	Pro	Cys	Phe	Glu	Asn	Ile	Leu	Asp	Tyr		

340						345						350				
Asp	Lys	Leu	Lys	Phe	Val	Glu	Tyr	Ile	Asn	Ser	Phe	Ser	Asp	Val	Lys	
		355					360					365				
Lys	Ser	Ser	Ser	Phe	Asp	Ile	Ile	Gly	Ser	Ser	Lys	Asn	Ile	Tyr	Glu	
	370					375					380					
Gln	Gly	Glu	Asn	Leu	Lys	Asn	Tyr	Cys	Ile	Tyr	His	Asn	Asn	Asn	Phe	
385					390					395					400	
Glu	Ser	Gly	Phe	Glu	Asn	Tyr	Ile	Leu	Glu	Asn	Lys	Gln	Pro	Leu	Glu	
				405					410					415		
Leu	Ile	Glu	Asn	His	Phe	Asp	Ile	Met	Glu	Asn	Ile	Lys	Gly	Met	Tyr	
			420					425					430			
Asp	Asn	Thr	Asn	Gln	Glu	Glu	Met	Asn	Phe	Asn	Asn	Val	Ser	Gly	Leu	
		435					440					445				
Leu	Arg	Glu	Asp	Asn	Ser	Asn	Met	Asn	Glu	Ile	Tyr	Leu	Thr	Arg	Asp	
	450					455					460					
Asn	His	Asn	Asn	Asn	Tyr	His	Glu	Asn	Glu	Glu	Asn	Ile	Tyr	Ser	Ile	
465					470					475					480	
Asn	Ile	Lys	Tyr	Ile	Asn	Asn	His	Phe	Asn	Asn	Lys	Asp	Asp	Met	Ile	
				485					490					495		
Met	Lys	Cys	Lys	Asn	Met	Lys	Gly	Ser	Ile	Ser	Met	Asp	Asn	Asn	Ser	
			500					505					510			
Ser	Asn	Ser	Asn	Ser	Asn	Asn	Thr	His	Phe	Glu	Lys	Thr	Leu	Glu	Ser	
		515					520					525				
Ile	Asn	Pro	Asp	Asp	His	Asn	Ile	Phe	Asn	Ser	Glu	Met	Asp	Ser	Met	
	530					535					540					
Lys	Asn	Glu	Asn	Asn	Asp	Glu	Glu	Glu	Gln	Thr	Ala	Thr	Ser	Ile	Tyr	
545					550					555					560	
Asn	Ile	Leu	Gly	Lys	Ile	Gly	Lys	Asp	Thr	Tyr	Ile	Lys	Arg	Cys	Ser	
				565					570					575		
Ser	Asn	Tyr	Asn	Tyr	Asp	Asn	Asn	Asn	Gly	Tyr	Ser	Asn	Glu	Ser	Ser	
			580					585					590			
Asp	Asn	Tyr	Asn	Asn	Gly	Tyr	Asn	Asp	Ser	Thr	Asp	Asn	Asn	Asn	Gly	
		595					600					605				
Tyr	Asn	Ser	Asn	Ser	Ser	Tyr	Asn	Ser	Asn	Asn	Asn	Glu	Asp	Asp	Asn	
	610					615					620					
Asn	Asn	Asn	Asn	Asn	Asn	Asp	Glu	Asn	Cys	Asp	Asn	Asn	Asn	Asn	His	
625					630					635					640	
Asn	Asn	Asn	Asn	Tyr	Asn	Asn	Asn	Asn	Asn	Tyr	Gly	Asn	Asn	Asn	Asn	
				645					650					655		
Asn	Asn	Asn	Asn	Asn	Lys	Asp	Asn	Asn	Asn	Asn	Asp	Gly	Asn	Gly	Ser	

660						665						670					
Ser	Asn	Asn	Asn	Asn	Asn	Asp	Asp	Asp	Asp	Glu	Glu	Glu	Glu	Asp	Asp		
675						680						685					
Glu	Asp	Asp	Asn	Asn	Asn	Asn	Asn	Asp	Asp	Asp	Asn	Met	Ser	Asp	Asn		
690						695						700					
Glu	Glu	Met	Glu	Asp	Asn	Asp	Glu	Asp	Asn	Asp	Glu	Tyr	Asn	Asn	Ser		
705						710						715					
Asn	Asp	Ser	Tyr	Lys	Tyr	Glu	Glu	Lys	Asp	Ser	Asn	His	Glu	Lys	Asp		
725						730						735					
Leu	Lys	Lys	Asp	Ile	Ile	Glu	Gly	Asp	Met	Ile	Asn	Ser	Val	Lys	Tyr		
740						745						750					
Asp	Lys	Asn	Ile	Gly	His	His	Thr	Thr	Asn	Lys	Ser	Glu	Ile	Ser	Thr		
755						760						765					
Asn	Tyr	Phe	Glu	Asn	Ser	Cys	Asn	Met	Ser	Val	Asn	Asn	Ser	Asn	Asn		
770						775						780					
Glu	Ala	Tyr	Asp	Asp	Asn	Cys	Asn	Asn	Gly	Phe	Met	Asn	His	Asp	Glu		
785						790						795					
Gly	Leu	Thr	Leu	Asn	Asn	Gly	Asn	Val	Ser	Asn	Asn	Lys	Cys	Asp	Ile		
805						810						815					
Ile	Ile	Pro	Glu	Asp	Gly	Ser	Val	Met	Tyr	Glu	Asn	Met	Ile	Asn	Arg		
820						825						830					
Gly	Asn	Gly	Leu	Thr	Ser	Asn	Ile	Asn	Asn	Asn	Asn	Asn	Val	Ser	Asn		
835						840						845					
Asn	Asn	Ser	Ile	Ser	Cys	Asn	Ala	Asp	Asp	Asn	Val	Tyr	Asn	Asn	Ile		
850						855						860					
Asn	Asn	Tyr	Ile	Asn	Thr	Tyr	Met	Glu	Thr	Thr	Asn	Asn	Lys	Asn	His		
865						870						875					
Ile	Glu	Asn	Arg	Cys	Asn	Gln	Asp	Ser	Tyr	Ser	Thr	Asn	Glu	Glu	Pro		
885						890						895					
Leu	Ser	Asn	His	Ser	Ile	Asn	Asp	Pro	Gly	Lys	Ile	Lys	Asp	Gly	Ile		
900						905						910					
Met	Tyr	Asp	Gly	Asn	Asp	Leu	Asp	Met	Asn	Gly	Thr	Gln	Glu	His	Ser		
915						920						925					
Lys	Glu	Glu	Gly	Met	Asp	Val	Phe	Glu	Pro	Asn	Phe	Phe	Glu	Leu	Lys		
930						935						940					
Arg	Asn	Ser	Ser	Asp	Gly	Gln	Asn	Lys	His	Leu	Glu	Pro	Gly	Val	Gln		
945						950						955					
Lys	Lys	Ile	Ser	Lys	Lys	Arg	Ser	Lys	Val	Lys	His	Glu	Arg	Asn	Ser		
965						970						975					
Lys	Ile	Leu	Asp	Asp	Glu	Lys	Lys	Glu	Val	Leu	Asn	Lys	Val	Ser	Gln		

20250404

1280					1285					1290						
Phe	Ile	Ile	Tyr	His	Thr	Leu	Pro	His	Asn	Ile	Ser	Leu	Arg	Lys		
1295					1300					1305						
Gln	Leu	Phe	Ile	Ile	Glu	Ala	Leu	Glu	Trp	Ser	Ser	Phe	Phe	Ser		
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Gly	Ala	Ala	Ser	Glu	Lys	Val	Glu									
1325					1330											
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<400> 51																
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Asp	Pro	Ser	Glu	Val	Phe	Pro	Glu	Ser	Lys	Lys	Phe	Phe	Phe	Ser	Ser	
			20		25					30						
Ile	Val	Cys	Leu	Lys	Thr	Asn	Phe	Asp	Lys	Arg	Thr	Gly	Ala	Leu	Gly	
		35		40					45							
Tyr	Leu	Asn	Leu	Ser	Tyr	Gly	Met	Gly	Ile	Ile	Phe	Gly	Ser	Phe	Leu	
50		55					60									
Ala	Gly	Val	Met	Val	Asn	Phe	Val	Gly	Ser	Arg	Gly	Asn	Leu	Leu	Ile	
65					70		75					80				
Ala	Leu	Leu	Ser	Gln	Leu	Ile	Ala	Leu	Cys	Ile	Ser	Thr	Thr	Leu	Glu	
				85		90					95					
Glu	Asp	Pro	Lys	Leu	Leu	Lys	Ser	Ser	Asn	Val	Asp	Lys	Met	Lys	Met	
			100		105					110						
Ser	Glu	Ile	Leu	Leu	Ser	Ile	Lys	Asn	Glu	Tyr	Ile	Arg	Val	Leu	Asn	
		115		120					125							
Leu	Phe	Lys	Lys	Thr	Tyr	Gly	Ile	Cys	Leu	Leu	Ile	Leu	Phe	Gly	Leu	
130		135					140									
Leu	Pro	Ile	Leu	Met	Thr	Lys	Phe	Ala	Phe	Ala	Pro	Val	Val	Val	Asp	
145					150		155					160				
Met	Phe	Lys	Leu	Thr	Pro	Ser	His	Thr	Ser	Tyr	Leu	Met	Thr	Tyr	Ala	
				165		170					175					
Gly	Ile	Ile	Thr	Ile	Ile	Ala	Glu	Gly	Ile	Leu	Ala	Pro	Tyr	Leu	Ser	
			180		185					190						
Ser	Leu	Leu	Gly	Asp	Met	Ile	Cys	Cys	Lys	Tyr	Ser	Ile	Pro	Leu	Thr	
		195		200					205							
Leu	Thr	Gly	Phe	Leu	Leu	Leu	Ser	Leu	Cys	Gly	Ala	Asn	Glu	Ser	Leu	
210	215					220										

Val Leu Ile Phe Met Ser Ile Pro Leu Cys Gly Gly Ala Leu Leu Tyr
225 230 235 240

Ile Cys Gly Thr Ser Gln Met Thr Lys Arg Val Glu Glu Ser Glu Leu
245 250 255

Gly Ser Ile Ile Gly Leu Asn Thr Ser Leu Phe Tyr Ala Val Thr Ile
260 265 270

Ile Ala Pro Tyr Ile Ala Phe Lys Ser Tyr Ile Ala Leu Gly Leu Gly
275 280 285

Leu Tyr Trp
290

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$\langle 211 \rangle$ 903

<212> PRT

<213> Plasmodium falciparum

<400> 52

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Leu Lys Thr Leu Leu Asp Cys Asn Phe Ala Leu Tyr Tyr Asn Phe Lys
20 25 30

Gly Asn Gly Pro Asp Ala Gly Ser Phe Leu Asp Phe Val Asp Glu Pro
35 40 45

Glu Gln Phe Tyr Trp Phe Val Glu His Phe Leu Ser Val Lys Phe Arg
50 55 60

Val Pro Lys His Leu Lys Asp Lys Asn Ile His Asn Phe Thr Pro Cys
65 70 75 80

Leu Asn Arg Ser Trp Val Ser Glu Phe Leu Lys Glu Tyr Glu Glu Pro
85 90 95

Phe Val Asn Pro Val Met Lys Phe Leu Asp Lys Glu Gln Arg Leu Phe
100 105 110

Phe Thr Tyr Asn Phe Gly Asp Val Glu Pro Gln Gly Lys Tyr Thr Tyr
115 120 125

Phe Pro Val Lys Glu Phe His Lys Tyr Cys Ile Leu Pro Pro Leu Ile
130 135 140

Lys Thr Asn Ile Lys Asp Gly Glu Ser Gly Glu Phe Leu Lys Tyr Gln
145 150 155 160

Leu Asn Lys Glu Glu Tyr Lys Val Phe Leu Ser Ser Val Gly Ser Gln
165 170 175

Met Thr Ala Ile Lys Asn Leu Tyr Ser Thr Val Glu Asp Glu Gln Arg
180 185 190

Lys Gln Leu Leu Lys Val Ile Ile Glu Asn Glu Ser Thr Asn Asp Ile
195 200 205

[illegible]

Ser	Val	Gln	Cys	Pro	Thr	Tyr	Asn	Ile	Lys	Leu	His	Tyr	Thr	Lys	Glu
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Cys	Ala	Asn	Ser	Asn	Asn	Ile	Leu	Lys	Cys	Ile	Asp	Glu	Phe	Leu	Arg
225					230					235					240
Lys	Thr	Cys	Glu	Lys	Lys	Thr	Glu	Ser	Lys	His	Pro	Ser	Ala	Asp	Leu
				245					250					255	
Cys	Glu	His	Leu	Gln	Phe	Leu	Phe	Glu	Ser	Leu	Lys	Asn	Pro	Tyr	Leu
			260					265					270		
Asp	Asn	Phe	Lys	Lys	Phe	Met	Thr	Asn	Ser	Asp	Phe	Thr	Leu	Ile	Lys
		275					280					285			
Pro	Gln	Ser	Val	Trp	Asn	Val	Pro	Ile	Phe	Asp	Ile	Tyr	Lys	Pro	Lys
	290					295					300				
Asn	Tyr	Leu	Asp	Ser	Val	Gln	Asn	Leu	Asp	Thr	Glu	Cys	Phe	Lys	Lys
305					310					315					320
Leu	Asn	Ser	Lys	Asn	Leu	Ile	Phe	Leu	Ser	Phe	His	Asp	Asp	Ile	Pro
				325					330					335	
Asn	Asn	Pro	Tyr	Tyr	Asn	Val	Glu	Leu	Gln	Glu	Ile	Val	Lys	Leu	Ser
			340					345					350		
Thr	Tyr	Thr	Tyr	Ser	Ile	Phe	Asp	Lys	Leu	Tyr	Asn	Phe	Phe	Phe	Val
		355					360					365			
Phe	Lys	Lys	Ser	Gly	Ala	Pro	Ile	Ser	Pro	Val	Ser	Val	Lys	Glu	Leu
	370					375					380				
Ser	His	Asn	Ile	Thr	Asp	Phe	Ser	Phe	Lys	Glu	Asp	Asn	Ser	Glu	Ile
385					390					395					400
Gln	Cys	Gln	Asn	Val	Arg	Lys	Ser	Leu	Asp	Leu	Glu	Val	Asp	Val	Glu
				405					410					415	
Thr	Met	Lys	Gly	Ile	Ala	Ala	Glu	Lys	Leu	Cys	Lys	Ile	Ile	Glu	Lys
			420					425					430		
Phe	Ile	Leu	Thr	Lys	Asp	Asp	Ala	Ser	Lys	Pro	Glu	Lys	Ser	Asp	Ile
		435					440					445			
His	Arg	Gly	Phe	Arg	Ile	Leu	Cys	Ile	Leu	Ile	Ser	Thr	His	Val	Glu
	450					455					460				
Ala	Tyr	Asn	Ile	Val	Arg	Gln	Leu	Leu	Asn	Met	Glu	Ser	Met	Ile	Ser
465					470					475					480
Leu	Thr	Arg	Tyr	Thr	Ser	Leu	Tyr	Ile	His	Lys	Phe	Phe	Lys	Ser	Val
				485					490					495	
Thr	Leu	Leu	Lys	Gly	Asn	Phe	Leu	Tyr	Lys	Asn	Asn	Lys	Ala	Ile	Arg
			500					505					510		
Tyr	Ser	Arg	Ala	Cys	Ser	Lys	Ala	Ser	Leu	His	Val	Pro	Ser	Val	Leu
		515					520					525			

Tyr Arg Arg Asn Ile Tyr Ile Pro Glu Thr Phe Leu Ser Leu Tyr Leu
530 535 540

Gly Leu Ser Asn Leu Val Ser Ser Asn Pro Ser Ser Pro Phe Phe Glu
545 550 555 560

Tyr Ala Ile Ile Glu Phe Leu Val Thr Tyr Tyr Asn Lys Gly Ser Glu
565 570 575

Lys Phe Val Leu Tyr Phe Ile Ser Ile Ile Ser Val Leu Tyr Ile Asn
580 585 590

Glu Tyr Tyr Tyr Glu Gln Leu Ser Cys Phe Tyr Pro Lys Glu Phe Glu
595 600 605

Leu Ile Lys Ser Arg Met Ile His Pro Asn Ile Val Asp Arg Ile Leu
610 615 620

Lys Gly Ile Asp Asn Leu Met Lys Ser Thr Arg Tyr Asp Lys Met Arg
625 630 635 640

Thr Met Tyr Leu Asp Phe Glu Ser Ser Asp Ile Phe Ser Arg Glu Lys
645 650 655

Val Phe Thr Ala Leu Tyr Asn Phe Asp Ser Phe Ile Lys Thr Asn Glu
660 665 670

Gln Leu Lys Lys Lys Asn Leu Glu Glu Ile Ser Glu Ile Pro Val Gln
675 680 685

Leu Glu Thr Ser Asn Asp Gly Ile Gly Tyr Arg Lys Gln Asp Val Leu
690 695 700

Tyr Glu Thr Asp Lys Pro Gln Thr Met Asp Glu Ala Ser Tyr Glu Glu
705 710 715 720

Thr Val Asp Glu Asp Ala His His Val Asn Glu Lys Gln His Ser Ala
725 730 735

His Phe Leu Asp Ala Ile Ala Glu Lys Asp Ile Leu Glu Glu Lys Thr
740 745 750

Lys Asp Gln Asp Leu Glu Ile Glu Leu Tyr Lys Tyr Met Gly Pro Leu
755 760 765

Lys Glu Gln Ser Lys Ser Thr Ser Ala Ala Ser Thr Ser Asp Glu Ile
770 775 780

Ser Gly Ser Glu Gly Pro Ser Thr Glu Ser Thr Ser Thr Gly Asn Gln
785 790 795 800

Gly Glu Asp Lys Thr Thr Asp Asn Thr Tyr Lys Glu Met Glu Glu Leu
805 810 815

Glu Glu Ala Glu Gly Thr Ser Asn Leu Lys Lys Gly Leu Glu Phe Tyr
820 825 830

Lys Ser Ser Leu Lys Leu Asp Gln Leu Asp Lys Glu Lys Pro Lys Lys
835 840 845

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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Lys Lys Ser Lys Arg Lys Lys Lys Arg Asp Ser Ser Ser Asp Arg Ile
850 855 860

Leu Leu Glu Glu Ser Lys Thr Phe Thr Ser Glu Asn Glu Leu Met Arg
865 870 875 880

Lys Lys Lys Lys Lys Lys Lys Lys Lys Asn Asn Asn Glu Ile Lys Asn
885 890 895

Ile Arg Ile Tyr Tyr Asn Leu
900

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<211> 743

<212> PRT

<213> Plasmodium falciparum

<400> 53

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Arg Trp Asn Ile Ile Ser Cys Asn Lys Asn Asp Lys Asn Gln Gly Val
20 25 30

Asp Met Asn Val Leu Asn Asn Tyr Glu Asn Leu Phe Lys Phe Val Lys
35 40 45

Cys Glu Tyr Cys Asn Glu His Thr Tyr Val Lys Gly Lys Lys Ala Pro
50 55 60

Ser Asp Pro Gln Cys Ala Asp Ile Lys Glu Glu Cys Lys Glu Leu Leu
65 70 75 80

Lys Glu Lys Gln Tyr Thr Asp Ser Val Thr Tyr Leu Met Asp Gly Phe
85 90 95

Lys Ser Ala Asn Asn Ser Ala Asn Asn Gly Lys Lys Asn Asn Ala Glu
100 105 110

Glu Met Lys Asn Leu Val Asn Phe Leu Gln Ser His Lys Lys Leu Ile
115 120 125

Lys Ala Leu Lys Lys Asn Ile Glu Ser Ile Gln Asn Lys Lys His Leu
130 135 140

Ile Tyr Lys Asn Lys Ser Tyr Asn Pro Leu Leu Leu Ser Cys Val Lys
145 150 155 160

Lys Met Asn Met Leu Lys Glu Asn Val Asp Tyr Ile Gln Lys Asn Gln
165 170 175

Asn Leu Phe Lys Glu Leu Met Asn Gln Lys Ala Thr Tyr Ser Phe Val
180 185 190

Asn Thr Lys Lys Lys Ile Ile Ser Leu Lys Ser Gln Gly His Lys Lys
195 200 205

Glu Thr Ser Gln Asn Gln Asn Glu Asn Asn Asp Asn Gln Lys Tyr Gln

210				215				220							
Glu 225	Val	Asn	Asp	Glu	Asp 230	Asp	Val	Asn	Asp	Glu 235	Glu	Asp	Thr	Asn	Asp 240
Asp	Glu	Asp	Thr	Asn 245	Asp	Glu	Glu	Asp	Thr 250	Asn	Asp	Asp	Glu	Asp 255	Thr
Asn	Asp	Asp	Glu 260	Asp	Thr	Asn	Asp	Glu 265	Glu	Asp	Thr	Asn	Asp 270	Glu	Glu
Asp	His	Glu 275	Asn	Asn	Asn	Ala	Thr 280	Ala	Tyr	Glu	Leu	Gly 285	Ile	Val	Pro
Val	Asn 290	Asp	Val	Leu	Asn	Val 295	Asn	Met	Lys	Asn	Met 300	Ile	Thr	Gly	Asn
Asn 305	Phe	Met	Asp	Val	Val 310	Lys	Asn	Thr	Leu	Ala 315	Gln	Ser	Gly	Gly	Leu 320
Gly	Ser	Asn	Asp	Leu 325	Ile	Asn	Phe	Leu	Asn 330	Gln	Gly	Lys	Glu	Ile 335	Gly
Glu	Asn	Leu	Leu 340	Asn	Ile	Thr	Lys	Met 345	Asn	Leu	Gly	Asp	Lys 350	Asn	Asn
Leu	Glu	Ser 355	Phe	Pro	Leu	Asp	Glu 360	Leu	Asn	Met	Leu	Lys 365	Asp	Asn	Leu
Ile	Asn 370	Tyr	Glu	Phe	Ile	Leu 375	Asp	Asn	Leu	Lys	Thr 380	Ser	Val	Leu	Asn
Lys 385	Leu	Lys	Asp	Leu	Leu 390	Leu	Arg	Leu	Leu	Tyr 395	Lys	Ala	Tyr	Val	Ser 400
Tyr	Lys	Lys	Arg	Lys 405	Ala	Gln	Glu	Lys	Gly 410	Leu	Pro	Glu	Pro	Thr 415	Val
Thr	Asn	Glu	Glu 420	Tyr	Val	Glu	Glu	Leu 425	Lys	Lys	Gly	Ile	Leu 430	Asp	Met
Gly	Ile	Lys 435	Leu	Leu	Phe	Ser	Lys 440	Val	Lys	Ser	Leu	Leu 445	Lys	Lys	Leu
Lys	Asn 450	Lys	Ile	Phe	Pro	Lys 455	Lys	Lys	Glu	Asp	Asn 460	Gln	Ala	Val	Asp
Thr 465	Lys	Ser	Met	Glu	Glu 470	Pro	Lys	Val	Lys	Ala 475	Gln	Pro	Ala	Leu	Arg 480
Gly	Val	Glu	Pro	Thr 485	Glu	Asp	Ser	Asn	Ile 490	Met	Asn	Ser	Ile	Asn 495	Asn
Val	Met	Asp	Glu	Ile	Asp	Phe	Phe	Glu 505	Lys	Glu	Leu	Ile	Glu 510	Asn	Asn
Asn	Thr	Pro	Asn	Val	Val	Pro	Pro 520	Thr	Gln	Ser	Lys	Lys 525	Lys	Asn	Lys
Asn	Glu	Thr	Val	Ser	Gly	Met	Asp	Glu	Asn	Phe	Asp	Asn	His	Pro	Glu

530	535	540
Asn Tyr Phe Lys Glu Glu Tyr Tyr Tyr Asp Glu Asn Asp Asp Met Glu 545 550 555 560		
Val Lys Val Lys Lys Ile Gly Val Thr Leu Lys Lys Phe Glu Pro Leu 565 570 575		
Lys Asn Gly Asn Val Ser Glu Thr Ile Lys Leu Ile His Leu Gly Asn 580 585 590		
Lys Asp Lys Lys His Ile Glu Ala Ile Asn Asn Asp Ile Gln Ile Ile 595 600 605		
Lys Gln Glu Leu Gln Ala Ile Tyr Asn Glu Leu Met Asn Tyr Thr Asn 610 615 620		
Gly Asn Lys Asn Ile Gln Gln Ile Phe Gln Gln Asn Ile Leu Glu Asn 625 630 635 640		
Asp Val Leu Asn Gln Glu Thr Glu Glu Glu Met Glu Lys Gln Val Glu 645 650 655		
Ala Ile Thr Lys Gln Ile Glu Ala Glu Val Asp Ala Leu Ala Pro Lys 660 665 670		
Asn Lys Glu Glu Glu Glu Lys Glu Lys Glu Lys Glu Glu Lys Glu Lys 675 680 685		
Glu Glu Lys Glu Lys Glu Lys Glu Glu Lys Glu Lys Glu Glu Lys Glu 690 695 700		
Lys Glu Glu Lys Glu Lys Glu Glu Lys Glu Glu Glu Lys Lys Glu Lys 705 710 715 720		
Glu Glu Glu Gln Glu Glu Glu Glu Glu Glu Glu Ile Val Pro Glu Asn 725 730 735		
Leu Thr Thr Glu Glu Ser Lys 740		

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 gaggttttat atttaaaacc tttagcaggt gtttatagaa gtttaaaaaa acaattagaa 120
 aataacgtta tgacatttaa tgttaatggt aaggatattt taaattcacg atttaataaa 180
 cgtgaaaatt tcaaaaatgt tttagaatca gatttaattc catataaaga tttaacatca 240
 agtaattatg ttgtcaaaga tccatataaa tttcttaata aagaaaaaag agataaattc 300
 ttaagcagtt ataattatat taaggattca atagatacgg atataaattt tgcaaatgat 360
 gttcttggat attataaaat attatccgaa aaatataaat cagatttaga ttcaattaa 420

[illegible]

ttagaatctt	acaaaaaatt	tctcccagaa	ggaacagatg	ttgcaacagt	tgtaagttaa	900
agtggatccg	acacattaga	acaaagtcaa	ccaaagaaac	cagcatcaac	tcatgtagga	960
gcagagtcta	acacaataac	aacatcacaa	aatgtcgatg	atgaagtaga	tgacgtaatc	1020
atagtaccta	tatttggaga	atccgaagaa	gattatgatg	atttaggaca	agtagtaaca	1080

<210> 56
 <211> 660
 <212> DNA
 <213> Plasmodium falciparum

<400> 56	
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agttttaa	aat tattttgaaa catattgagt cttggaaaaa acaaaaatat ataccaagaa 120
ttaatagg	tc aaaaaagtag tgaaaacttt tatgaaaaga tattaaaaga tagtgatata 180
ttttataa	tg aatcttttac aaattttgta aaatctaaag ctgatgatata taattcattg 240
aatgatga	aat caaaaaggaa gaaattagaa gaagatatta ataaattaaa aaaaacttta 300
cagttatc	at ttgatttata taataaatat aaattaaaat tagaaagatt atttgataaa 360
aagaaaac	ag ttggtaaata taaaatgcaa attaaaaaac ttactttatt aaaagaacaa 420
ttagaatc	aa aattgaattc acttaataac ccaaagcatg tattacaaaa cttttctggt 480
ttcttta	aca aaaaaaaaga agctgaaata gcagaaactg aaaacacatt agaaaacaca 540
aaaatatt	tat tgaaacatta taaaggactt gttaaataat ataatggtga atcatctcca 600
ttaaaaac	ttaagtgaa atcaattcaa acagaagata attatgccag tttagaaaac 660

<210> 57
 <211> 1080
 <212> DNA
 <213> Plasmodium falciparum

<400> 57	
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agttttaa	aat tattttgaaa catattgagt cttggaaaaa acaaaaatat ataccaagaa 120
ttaatagg	tc aaaaaagtag tgaaaacttt tatgaaaaga tattaaaaga tagtgatata 180
ttttataa	tg aatcttttac aaattttgta aaatctaaag ctgatgatata taattcattg 240
aatgatga	aat caaaaaggaa gaaattagaa gaagatatta ataaattaaa aaaaacttta 300
cagttatc	at ttgatttata taataaatat aaattaaaat tagaaagatt atttgataaa 360
aagaaaac	ag ttggtaaata taaaatgcaa attaaaaaac ttactttatt aaaagaacaa 420
ttagaatc	aa aattgaattc acttaataac ccaaagcatg tattacaaaa cttttctggt 480

ttctttaaca	aaaaaaaaaga	agctgaaata	gcagaaactg	aaaacacatt	agaaaacaca	540
aaaatattat	tgaacatta	taaaggactt	gttaaatt	ataatggtga	atcatctcca	600
ttaaaaactt	taagtgaaga	atcaattcaa	acagaagata	attatgccag	tttagaaaac	660
tttaaagtat	taagtaaatt	agaaggaaaa	ttaaaggata	atttaaattt	agaaaagaaa	720
aaattatcat	acttatcaag	tggattacat	catttaattg	ctgaattaaa	agaagtaata	780
aaaaataaaa	attatacagg	taatttctcca	agtgaaaata	atacggatgt	taacaatgca	840
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gcagagtcta	acacaataac	aacatcacia	aatgtcgatg	atgaagtaga	tgacgtaatc	1020
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<210> 58
 <211> 1131
 <212> DNA
 <213> Plasmodium falciparum

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gttatgacat	ttaatgttaa tgttaaggat atttttaaatt cacgatttaa taaacgtgaa 180
aatttcaaaa	atgtttttaga atcagattta attccatata aagatttaac atcaagtaat 240
tatgttgtca	aagatccata taaatttctt aataaagaaa aaagagataa attcttaagc 300
agttataatt	atattaagga ttcaatagat acggatataa attttgcaaa tgatgttctt 360
ggatattata	aaatattatc cgaaaaatat aaatcagatt tagattcaat taaaaaatat 420
atcaacgaca	aacaaggtga aaatgagaaa taccttcctt ttttaacaa tattgagacc 480
ttatataaaa	cagttaatga taaaattgat ttatttgtaa ttcatttaga agcaaaagtt 540
ctaaattata	catatgagaa atcaaacgta gaagttaaaa taaaagaact taattactta 600
aaaacaattc	aagacaaatt ggcagatttt aaaaaaata acaatttcgt tggaattgct 660
gatttatcaa	cagattataa ccataataac ttattgacaa agttccttag tacagggtatg 720
gtttttgaaa	atcttgctaa aaccgtttta tctaatttac ttgatggaaa cttgcaaggt 780
atgttaaaca	ttcacaaca ccaatgcgta aaaaaacaat gtccacaaaa ttctggatgt 840
ttcagacatt	tagatgaaag agaagaatgt aaatgtttat taaattacaa acaagaaggt 900
gataaatgtg	ttgaaaatcc aaatcctact tgtaacgaaa ataatggtgg atgtgatgca 960
gatgccaaat	gtaccgaaga agattcaggt agcaacggaa agaaaatcac atgtgaatgt 1020

actaaacctg attcttatcc acttttcgat ggtattttct gcagttcctc taactttctta 1080
ggaatatcat tcttattaat actcatgtta atattataca gtttcattta a 1131

```
<210> 59
<211> 343
<212> DNA
<213> Plasmodium falciparum
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tgttgaaaat	ccaaatccta	cttgtaacga	aaataatggg	ggatgtgatg	cagatgccaa				180
atgtaccgaa	gaagattcag	gtagcaacgg	aaagaaaatc	acatgtgaat	gtactaaacc				240
tgattcttat	ccacttttcg	atgggtatttt	ctgcagttcc	tctaacttct	taggaatatc				300
attcttatta	atactcatgt	taatattata	cagtttcatt	taa					343

1

Country	Year	Value	Unit
Algeria	1990	1.00	kg
Algeria	1991	1.00	kg
Algeria	1992	1.00	kg
Algeria	1993	1.00	kg
Algeria	1994	1.00	kg
Algeria	1995	1.00	kg
Algeria	1996	1.00	kg
Algeria	1997	1.00	kg
Algeria	1998	1.00	kg
Algeria	1999	1.00	kg
Algeria	2000	1.00	kg
Algeria	2001	1.00	kg
Algeria	2002	1.00	kg
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Algeria	2006	1.00	kg
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Algeria	2011	1.00	kg
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Algeria	2013	1.00	kg
Algeria	2014	1.00	kg
Algeria	2015	1.00	kg
Algeria	2016	1.00	kg
Algeria	2017	1.00	kg
Algeria	2018	1.00	kg
Algeria	2019	1.00	kg
Algeria	2020	1.00	kg
Algeria	2021	1.00	kg
Algeria	2022	1.00	kg
Algeria	2023	1.00	kg
Algeria	2024	1.00	kg
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Algeria	2026	1.00	kg
Algeria	2027	1.00	kg
Algeria	2028	1.00	kg
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Algeria	2030	1.00	kg
Algeria	2031	1.00	kg
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Algeria	2039	1.00	kg
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Algeria	2042	1.00	kg
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Algeria	2059	1.00	kg
Algeria	2060	1.00	kg
Algeria	2061	1.00	kg
Algeria	2062	1.00	kg
Algeria	2063	1.00	kg
Algeria	2064	1.00	kg
Algeria	2065	1.00	kg
Algeria	2066	1.00	kg
Algeria	2067	1.00	kg
Algeria	2068	1.00	kg
Algeria	2069	1.00	kg
Algeria	2070	1.00	kg
Algeria	2071	1.00	kg
Algeria	2072	1.00	kg
Algeria	2073	1.00	kg
Algeria	2074	1.00	kg
Algeria	2075	1.00	kg
Algeria	2076	1.00	kg
Algeria	2077	1.00	kg
Algeria	2078	1.00	kg
Algeria	2079	1.00	kg
Algeria	2080	1.00	kg
Algeria	2081	1.00	kg
Algeria	2082	1.00	kg
Algeria	2083	1.00	kg